F H WA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.			

EXISTING SIGNALS & SIGNS

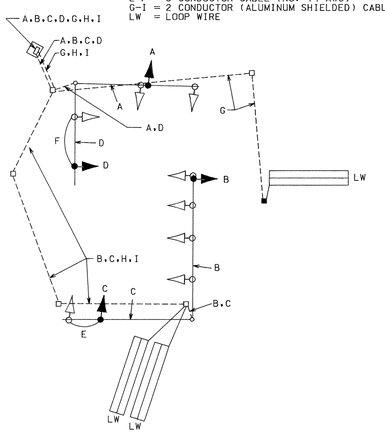
1-2: R, Y, G — 12" 12"
3,4,6,7,9-12: R, Y, G — 12"
13,14: ONLY — R 3-5(L) 30"X 36"
16a: Greenspring Dr. — 16" x Var. — D3-2
16b: Greenspring Dr. — Dual Faced

PROPOSED SIGNALS & SIGNS

5,8: R, Y, G — 12" 12" 12" 8" 8" 8"
6,9: R, Y, G — 12"
15,20: LEFT TURN YIELD ON GREEN — R 10-12 36"X42"
17: SOUTH MARYLAND 25 — ASSOCIATED SHIELD ASSEMBLY 30" x 51"
18: NORTH MARYLAND 25 — ASSOCIATED SHIELD ASSEMBLY 30" x 51"
21: SOUTH MARYLAND 25 — ASSOCIATED SHIELD ASSEMBLY 30" x 51"
19a,19b,22a,22b: Falls Rd. — D3-2 16" x Var.

WIRING DIAGRAM

A-D = 7 CONDUCTOR CABLE (NO. 14 AWG)
E-F = 5 CONDUCTOR CABLE (NO. 14 AWG)
G-I = 2 CONDUCTOR (ALUMINUM SHIELDED) CABLE
LW = LOOP WIRE



PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF EXCLUSIVE/ PERMISSIVE LEFT TURNS FOR SOUTHBOUND MD 25. AND FOR EASTBOUND MD 130.

MD 25 RUNS IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

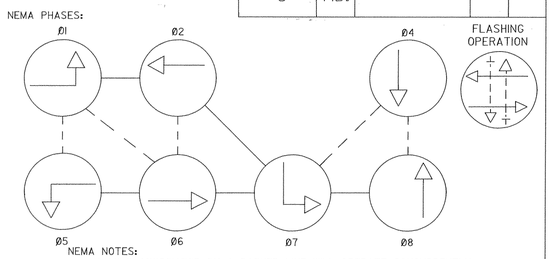
THIS INTERSECTION IS EQUIPPEDWITH AN EIGHT PHASE CONTROLLER HOUSED IN A BASE MOUNTED CABINET. THE CONTROLLER WILL USE SEVEN PHASES OUT OF EIGHT WITH AN EXCLUSIVE LEFT TURN PHASE FOR NORTHBOUND MD 25. AND AN EXCLUSIVE/ PERMISSIVE LEFT TURN PHASE FOR SOUTHBOUND MD 25. AND FOR EASTBOUND MD 130.

CONSTRUCTION DETAILS
1. REMOVE EXISTING SIGNAL HEAD. INSTALL PROPOSED SIGNAL HEAD. AND SIGN ON EXISTING MAST ARM.
2. INSTALL 6' x 30' LOOP DETECTOR (3-6-3 TURNS).
3. F & I 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT - DETECTOR SLEEVE.
4. REMOVE MONOLITHIC MEDIAN. F & I HANDHOLE. AND REPLACE MONOLITHIC MEDIAN.
5. F & I 2" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
6. INSTALL 6' x 30' LOOP DETECTOR (3-6-3 TURNS). DISCONNECT EXISTING LOOP DETECTOR.
7. USE EXISTING HANDHOLE.
8. USE EXISTING CONDUIT.
9. INSTALL SIGN ON EXISTING POLE.
10. INSTALL PROPOSED SIGNAL HEAD ON EXISTING MAST ARM.
11. INSTALL SIGN ON EXISTING MAST ARM.

GENERAL NOTES:

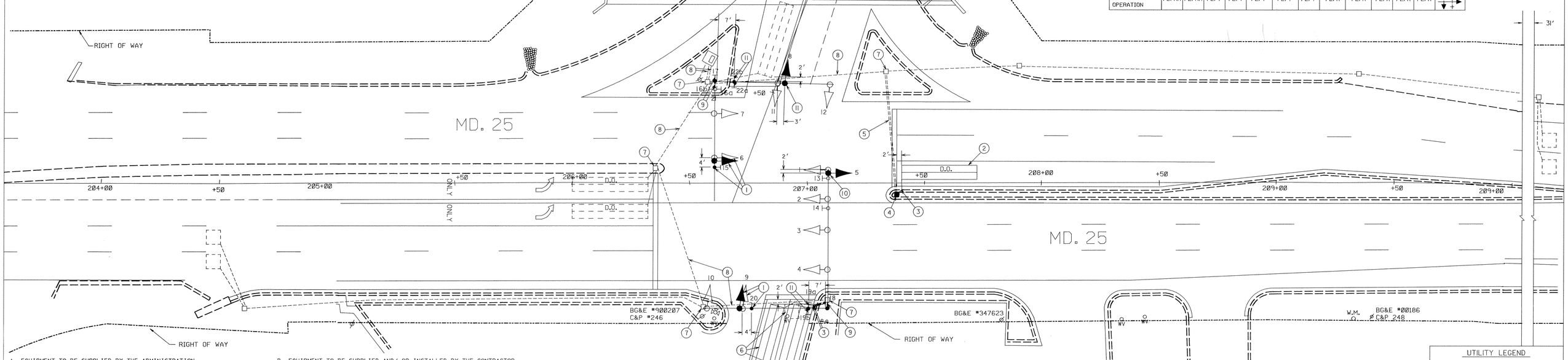
1. "D.O." DENOTES A DELAY-OUTPUT LOOP DETECTOR.
2. REVISION "A" IS A MODIFICATION TO WORK COMPLETED UNDER CONTRACT B-433-501-485. DATED 5-4-77.
3. THE ORIGINAL T.S. 268 HAS BEEN FILED.

NEMA PHASES:



NEMA NOTES:
1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 5	◄G-	◄G-	R	R	◄G-R	◄G-R	R	R	R	R	R	R
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6											
PHASE 1 & 6	◄G-	◄G-	G	G	R	R	R	R	R	R	R	R
1 CHANGE	◄Y-	◄Y-	G	G	R	R	R	R	R	R	R	R
PHASE 2 & 5	◄R-	◄R-	R	R	◄G-G	◄G-G	G	R	R	R	R	R
5 CHANGE	◄R-	◄R-	R	R	◄Y-G	◄Y-G	G	R	R	R	R	R
PHASE 2 & 6	◄R-	◄R-	G	G	G	G	G	R	R	R	R	R
2 & 6 CHANGE	◄R-	◄R-	Y	Y	Y	Y	Y	R	R	R	R	R
PHASE 4 & 7	◄R-	◄R-	R	R	R	R	R	◄G-G	◄G-G	G	R	R
7 CHANGE	◄R-	◄R-	R	R	R	R	R	◄Y-G	◄Y-G	G	R	R
PHASE 4 & 8	◄R-	◄R-	R	R	R	R	R	G	G	G	G	G
4 & 8 CHANGE	◄R-	◄R-	R	R	R	R	R	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R



A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
	2 EACH	COMBINATION 8"/ 12" ONE-WAY. FIVE SECTION (12" YA.GA. 8" R.Y.G) SIGNAL HEAD. MAST ARM MOUNTED HARDWARE
	2 EACH	12" ONE-WAY. FIVE SECTION (R.YA.GA.Y.G) SIGNAL HEAD. MAST ARM MOUNTED HARDWARE
	88.4 S.F.	2 EACH R10-12 SIGN. "LEFT TURN YIELD ON GREEN (BALL)". 36" x 42". MAST ARM MOUNTED HARDWARE
		1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN. "SOUTH. MARYLAND 25. RIGHT ARROW". 24" x 51". POLE MOUNTED HARDWARE
		1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN. "NORTH. MARYLAND 25. LEFT ARROW". 36" x 75". POLE MOUNTED HARDWARE
		1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN. "SOUTH. MARYLAND 25. LEFT ARROW". 36" x 75". POLE MOUNTED HARDWARE
		4 EACH D3-2 SIGN. "FALLS RD". 16" x Var.. MAST ARM MOUNTED HARDWARE

B. EQUIPMENT TO BE SUPPLIED AND/ OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	1 C.Y.	TEST PIT EXCAVATION
2007	.3 C.Y.	REMOVE MONOLITHIC MEDIAN LESS THAN OR TO 4 FT.
6009	.3 C.Y.	MONOLITHIC CONCRETE MEDIAN 4 FT. WIDE TYPE A
8011	4 EACH	INSTALL SIGNAL HEAD
8022	270 L.F.	F & I SAW CUT FOR SIGNAL (LOOP DETECTOR)
8024	20 L.F.	F & I 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8026	60 L.F.	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8035	1 EACH	F & I HANDHOLE
8043	1,000 L.F.	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING

B. EQUIPMENT TO BE SUPPLIED AND/ OR INSTALLED BY THE CONTRACTOR (CONT.)

ITEM NO.	QUANTITY	DESCRIPTION
8044	600 L.F.	F & I ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8047	60 L.F.	F & I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8048	850 L.F.	F & I ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8056	46 S.F.	INSTALL GROUND MOUNTED SIGN
8057	42.4 S.F.	INSTALL OVERHEAD MOUNTED SIGN

UTILITY LEGEND

G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
E — E	ELECTRIC CABLES
A — A	AERIAL CABLES
T — T	TELEPHONE CABLES

REVISIONS	APPROVALS
A. 08/96 - AS BUILT: ADD E/P L.T. FOR S.B. MD 25. & FOR E.B. MD 130 SHA #AW-03-501-485.	CHIEF, SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

NOTE: THIS IS A REVISION TO B-433-501-485 DATED 5-4-77 ORIGINAL PLAN ON FILE

MDOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

SIGNAL # 03002503.76

DRAWN BY: Barry King
DES. BY: Barry King
CHK. BY: D.J. Doda Jr.

MD. 25 & MD. 130

COUNTY: BALTIMORE

DATE: 5-4-77
SCALE: 1" = 20'
F.A.P. NO.
S.H.A. NO. B-433-501-485

TS/STD. NO. TS-268 (A)

SHEET NO. 1 OF 1